

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A font processor, comprising:

a data acquiring device that acquires font data of bitmap fonts;

a subpixel-font generating device that analyzes an area of the font data to identify whether the area includes a pixel located diagonal to a target pixel, the subpixel-font generating device:

~~a subpixel-font generating device that analyzes an area of the font data by pattern matching to generate subpixel fonts that have data in subpixels, the pattern matching identifying whether the area corresponds to one of patterns including a horizontal, vertical, or diagonal line of pixels, the subpixel-font generating device shifting or not shifting the subpixels constituting the pixels by a predetermined number of subpixels depending on whether or not the area corresponds to a pattern including a diagonal line of pixels; and solely~~
when the area includes a pixel located diagonal to the target pixel, shifting the target pixel by at least one subpixel to generate a shifted target pixel and then expanding the shifted target pixel into subpixel fonts; and

when the area includes no pixel located diagonal to the target pixel, avoiding a shift in the target pixel before expanding the target pixel into subpixel fonts; and

a gradation controlling device that controls gradation levels of the subpixels constituting the subpixel fonts.

2. (Original) The font processor according to Claim 1, wherein, when pixels constituting the font data are adjacently arranged in a diagonal line, the subpixel-font generating device horizontally shifts the subpixels constituting the pixels by a predetermined number of subpixels.

3. (Original) The font processor according to Claim 2, the subpixel-font generating device shifting the subpixels constituting the pixels left when the pixels constituting the font data are adjacently arranged in a left diagonal line, while the subpixel-font generating device shifts the subpixels constituting the pixels right when the pixels constituting the font data are adjacently arranged in a right diagonal line.

4. (Original) The font processor according to Claim 1, the subpixel-font generating device placing the subpixels constituting the pixels at positions of the corresponding pixels when the pixels constituting the font data are arranged in a horizontal line or in a vertical line.

5. (Original) The font processor according to Claim 1, the subpixel-font generating device performing the pattern matching using a matching pattern of 3×3 pixels.

6. (Original) The font processor according to Claim 1, the gradation controlling device further comprising:

an edge detecting device that detects edges included in the subpixel fonts; and
a gradation setting device that sets gradation level of the pixels constituting the edges to an intermediate gradation level.

7. (Original) The font processor according to Claim 6,
the edge detecting device detecting portions where pixels constituting a character are horizontally adjacent to pixels constituting a background as the edges, and
the gradation setting device increasing the gradation level of the pixels constituting the character by a predetermined percentage and decreasing the gradation level of the pixels constituting the background by the predetermined percentage.

8. (Original) A terminal device, comprising:
the font processor according to Claim 1;
a storage device that stores font data generated by the font processor; and

a display unit that displays the font data generated by the font processor.

9. (Currently Amended) A font processing method, comprising:

acquiring font data of bitmap fonts;

analyzing an area of the font data by pattern matching to generate subpixel

fonts that have data in subpixels, the pattern matching identifying ~~whether the area~~
~~corresponds to one of patterns including a horizontal, vertical, or diagonal line of pixels, the~~
~~subpixel-font generating device shifting or not shifting the subpixels constituting the pixels~~
~~by a predetermined number of subpixels depending on whether or not the area corresponds to~~
~~a pattern including a diagonal line of pixels; and whether the area includes a pixel located~~
diagonal to a target pixel; and

solely when the area includes a pixel located diagonal to the target pixel,
shifting the target pixel by at least one subpixel to generate a shifted target pixel and then
expanding the shifted target pixel into subpixel fonts; and

when the area includes no pixel located diagonal to the target pixel, avoiding a
shift in the target pixel before expanding the target pixel into subpixel fonts; and

controlling the gradation levels of the subpixels constituting the subpixel fonts.

10. (Currently Amended) A font processing program executed in a terminal
device having a computer, the program causing the computer to function as:

a data acquiring device that acquires font data of bitmap fonts;

a subpixel-font generating device that analyzes an area of the font data by
pattern matching to generate subpixel fonts that have data in subpixels, the pattern matching
identifying ~~whether the area corresponds to one of patterns including a horizontal, vertical, or~~
~~diagonal line of pixels, the subpixel-font generating device shifting or not shifting the~~
~~subpixels constituting the pixels by a predetermined number of subpixels depending on~~
~~whether or not the area corresponds to a pattern including a diagonal line of pixels;~~

and whether the area includes a pixel located diagonal to a target pixel, the subpixel-font generating device:

solely when the area includes a pixel located diagonal to the target pixel, shifting the target pixel by at least one subpixel to generate a shifted target pixel and then expanding the shifted target pixel into subpixel fonts; and

when the area includes no pixel located diagonal to the target pixel, avoiding a shift in the target pixel before expanding the target pixel into subpixel fonts; and

a gradation controlling device that controls gradation levels of the subpixels constituting the subpixel fonts.

11. (New) A font processor, comprising:

a data acquiring device that acquires font data of bitmap fonts; and

a subpixel-font generating device that analyzes pixel configuration of the font data using pattern matching to generate subpixel fonts, the subpixel fonts being data in units of subpixels, the subpixel-font generating device:

when a pixel constituting the font data is located at a position that, with respect to a first direction, is diagonal to a target pixel, shifts the subpixels of the target pixel in the first direction by at least one subpixel distance; and

when a pixel constituting the font data is located at a position that, with respect to a second direction opposite to the first direction, is diagonal to the target pixel, shifts the subpixels of the target pixel in the second direction by at least one subpixel distance.

12. (New) A font processor, comprising:

a data acquiring device that acquires font data of bitmap fonts; and

a subpixel-font generating device that analyzes pixel configuration of the font data using pattern matching to generate subpixel fonts, the subpixel fonts being data in units of subpixels, the subpixel-font generating device:

when a pixel constituting the font data is located at a first position that, with respect to a first direction in which subpixels are to be aligned, is adjacent to a target pixel, disposes subpixels at the position of the target pixel without shifting the target pixel;

when no pixel constituting the font data is located at the first position and also a pixel constituting the font data is located at a second position that, with respect to a second direction orthogonal to the first direction, is adjacent to the target pixel, disposes subpixels at the position of the target pixel without shifting the target pixel; and

when no pixel constituting the font data is located at the second position and also a pixel is located at a third position that is adjacent and diagonal to the target pixel, shifts the target pixel by at least one subpixel distance and then disposes subpixels at the position of the target pixel, wherein:

when the third position where the pixel is located is to one side of the target pixel, the target pixel is shifted in one direction, and

when the third position where the pixel is located is to another side of the target pixel that is opposite to the one side, the target pixel is shifted in a direction opposite to the one direction.